

2 125

PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>Substitute for form 1449A/B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/729,360-Conf. #8237	
			Filing Date	December 4, 2003	
			First Named Inventor	Xavier Golay	
			Art Unit	N/A	
			Examiner Name	Not Yet Assigned	
Sheet	1	of	1	Attorney Docket Number	60399(71699)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	AA	US-5,429,134-A	07-04-1995	Foo	128/653 +

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	1-8-05
-----------------------	--	--------------------	--------



FORM PTO-1449

INFORMATION DISCLOSURE  
STATEMENTDOCKET NO:  
60399 (71699)Application No.:  
10/729,360

APPLICANT: Golay, et al.

FILING DATE:  
December 4, 2003ART UNIT  
Not yet assigned

## UNITED STATES PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	4,689,563	8/25/1987	Bottomley et al.	324	309	
	A2	4,968,937	11/6/1990	Akgun	324	309	
	A3	5,990,681	11/23/1999	Richard et al.	324	309	

## FOREIGN PATENT DOCUMENTS

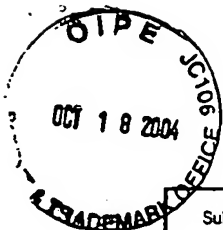
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO
							Abstract

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	C1	Alsop, et al., "Background Suppressed 3D RARE Arterial Spin Labeled Perfusion MRI", Departments of Radiology and Neurology, University of Pennsylvania, Philadelphia, PA.
	C2	Lu, et al., "Functional Magnetic Resonance Imaging Based on Changes in Vascular Space Occupancy", Magnetic Resonance in Medicine 50:263-274 (2003), pp. 263-274.
	C3	Duyn, et al., "High-Sensitivity Single-Shot Perfusion-Weighted fMRI", Magnetic Resonance in Medicine 46:88-94 (2001), pp. 88-94.
	C4	Song, et al., "Multislice Double Inversion Pulse Sequence for Efficient Black-Blood MRI", Magnetic Resonance in Medicine 47:616-620 (2002), pp. 616-620..
	C5	Ye, et al., "Noise Reduction in 3D Perfusion Imaging by Attenuating the Static Signal in Arterial Spin Tagging (ASSIST)", Magnetic Resonance in Medicine 44:92-100 (2000), pp.92-100.
	C6	Blamire, et al., "Spin Echo Entrapped Perfusion Image (SEEPAGE). A Nonsubtraction Method for Direct Imaging of Perfusion", Magnetic Resonance in Medicine 43:701-704 (2000), pp.701-704.

EXAMINER:

DATE:



PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>Substitute for form 1449A/B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/729,360-Conf. #8237
				Filing Date	December 4, 2003
				First Named Inventor	Xavier Golay
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	60399(71699)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-5,429,134-A	07-04-1995	Foo	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> -Number-Kind Code <sup>3</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	1-8-05
-----------------------	--	--------------------	--------



2125

FORM PTO-1449

DOCKET NO:  
60399 (71699)

Application No.:  
10/729,360

INFORMATION DISCLOSURE  
STATEMENT

APPLICANT: Golay, et al.

FILING DATE:  
December 4, 2003

ART UNIT  
Not yet assigned

UNITED STATES PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
B	A1	4,689,563	8/25/1987	Bottomley et al.	309	324	
I	A2	4,968,937	11/6/1990	Akgun	309	324	
I	A3	5,990,681	11/23/1999	Richard et al.	309	324	
B							

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO
							Abstract

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

B	C1	Alsop, et al., "Background Suppressed 3D RARE Arterial Spin Labeled Perfusion MRI", Departments of Radiology and Neurology, University of Pennsylvania, Philadelphia, PA.
I	C2	Lu, et al., "Functional Magnetic Resonance Imaging Based on Changes in Vascular Space Occupancy", Magnetic Resonance in Medicine 50:263-274 (2003), pp. 263-274.
	C3	Duyn, et al., "High-Sensitivity Single-Shot Perfusion-Weighted fMRI", Magnetic Resonance in Medicine 46:88-94 (2001), pp. 88-94.
	C4	Song, et al., "Multislice Double Inversion Pulse Sequence for Efficient Black-Blood MRI", Magnetic Resonance in Medicine 47:616-620 (2002), pp. 616-620..
I	C5	Ye, et al., "Noise Reduction in 3D Perfusion Imaging by Attenuating the Static Signal in Arterial Spin Tagging (ASSIST)", Magnetic Resonance in Medicine 44:92-100 (2000), pp.92-100.
B	C6	Blamire, et al., "Spin Echo Entrapped Perfusion Image (SEEPAGE). A Nonsubtraction Method for Direct Imaging of Perfusion", Magnetic Resonance in Medicine 43:701-704 (2000), pp.701-704.

EXAMINER:

DATE:

1.8.05